



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	HIV-1 (YU2) gp140 (-/GCN4) in pcDNA3.1
<b>Catalog Number:</b>	12133
<b>Lot Number:</b>	110175
<b>Release Category:</b>	C
<b>Provided:</b>	5 µg of dried purified DNA stabilized in DNastable <i>PLUS</i>
<b>Cloning Site:</b>	NheI (5') / AflIII (3')
<b>Cloning Vector:</b>	The cloning vector is pcDNA3.1(Zeo/-) (Invitrogen), the size of the cloning vector including the insert is 7372 bp.
<b>Description:</b>	Once transfected into appropriate cells, the plasmid produces soluble, cleavage negative, trimeric gp140 derived from the neutralization resistant YU-2 virus. Trimerization is due to the inclusion of the GCN4 trimeric motif (MKQIEDKIEEILSKIYHIENEIARIKKLIGEV) which is positioned after lysine 683 and a pair of glycine residues in the gp140Δ683(-/GCN4) construct. Purification of the protein is possible through use of a Ni column. Please see the below references for additional information.
<b>Special Characteristics:</b>	<a href="#">Plasmid map and sequence file lot 110175</a> This reagent is currently being provided as dried purified DNA stabilized in DNastable <i>PLUS</i> . Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents. <a href="#">Dried DNA Notice</a>
<b>Recommended Storage:</b>	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
<b>Contributor:</b>	Dr. Joseph Sodroski

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**References:**

Yang X, Wyatt R, Sodroski J. Improved elicitation of neutralizing antibodies against primary human immunodeficiency viruses by soluble stabilized envelope glycoprotein trimers. J Virol. 2001 Feb;75(3):1165-71. DOI: 10.1128/JVI.75.3.1165-1171.2001. Li Y, Svehla K, Mathy NL, Voss G, Mascola JR, et al. Characterization of antibody responses elicited by human immunodeficiency virus type 1 primary isolate trimeric and monomeric envelope glycoproteins in selected adjuvants. J Virol, 2006; 80:1414–1426

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 (YU2) gp140 (-/GCN4) in pcDNA3.1 from Dr. Joseph Sodroski."

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact Joseph Sodroski, phone: 617.632.3371, email: joseph\_sodroski@dfci.harvard.edu, before the reagent can be released.**

**Last Updated:**

December 19, 2017

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